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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PU20121	FOR FURTHER ACTION	CTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/41)					
International application No.	pplication No. International filing date (day/month/year) Priority date (day/month/year)						
PCT/US03/07166 International Patent Classification (IPC)	10 March 2003 (10.03.2003) or national classification and IPC	17 April 2002 (17.04.2002)					
IPC(7): H03M 13/03 and US Cl.: 714/79 Applicant	92, 194, 195, 196;315/341,240.05,.	205;348/725,333					
THOMSON LICENSING S.A.							
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of 4 sheets, including this cover sheet.							
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a total of \cancel{p} sheets.							
3. This report contains indica	3. This report contains indications relating to the following items:						
I Basis of the rep	I Basis of the report						
II Priority							
III Non-establishm	ent of report with regard to no	ovelty, inventive step and industrial applicability					
IV Lack of unity o	IV Lack of unity of invention						
	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI Certain docume							
VII Certain defects	VII Certain defects in the international application						
VIII Certain observa							
Date of submission of the demand		Date of completion of this report					
17 November 2003 (17.11.2003)		12 December 2003 (12.12.2003)					
Name and mailing address of the IPEA/US		thorized officer					
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents	Gu	by J. Lamarre, P.E.					
P.O. Box 1450 Alexandria, Virginia 22313-1450 Faccimile No. (703)305-3230	Tel	lephone No. 703 305 3900					
Facsimile No. (703)305-3230							

Form PCT/IPEA/409 (cover sheet)(July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPO	ATION REPOR	EXAMIN	PRELIMINARY	INTERNATIONAL
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International application No.
PCT/US03/07166

I.	Basis of the report
1.	With regard to the elements of the international application:*
	the international application as originally filed.
	the description:
	pages 1-18 as originally filed
	pages NONE, filed with the demand pages NONE, filed with the letter of
	the claims:
	pages 19-25, as originally filed pages NONE, as amended (together with any statement) under Article 19
	pages NONE, filed with the demand
	pages NONE, filed with the letter of
	the drawings:
	pages 1-5 , as originally filed
	pages NONE , filed with the demand pages NONE , filed with the letter of
	pages NONE, filed with the letter of
	the sequence listing part of the description:
	pages NONE , as originally filed
	pages NONE , filed with the demand pages NONE , filed with the letter of
2	With regard to the language, all the elements marked above were available or furnished to this Authority in the
ے.	language in which the international application was filed, unless otherwise indicated under this item.
	These elements were available or furnished to this Authority in the following language which is:
	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
	the language of publication of the international application (under Rule 48.3(b)).
	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.	. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:
	contained in the international application in printed form.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority in written form.
	furnished subsequently to this Authority in computer readable form.
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
	The statement that the information recorded in computer readable form is identical to the written sequence listin has been furnished.
4	The amendments have resulted in the cancellation of:
	the description, magney NONE
}	the description, pages NONE
	the claims, Nos. NONE
	the drawings, sheets/fig NONE
5	
	beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to
1 ti	keplacement sneets which have been jurnished to the receiving Office in response to an invitation and reflect 1 are referred to this report since they do not contain amendments (Rules 70.16 and 70.17). ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

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International application.
PCT/US03/07166

V. Reasoned statement under Rule 66.2(a)(ii citations and explanations supporting suc	i) with regar h statement	d to novelty, inventive step or in	dustrial applicability;			
1. STATEMENT						
Novelty (N)	Claims	1-25	YES			
Novely (11)		NONE	NO			
			VEC			
Inventive Step (IS)	Claims		YES NO			
	Claims	NONE				
Industrial Applicability (IA)	Claims	1-25	YESYES			
Industrial Applicatinty (171)		NONE	NO			
2. CITATIONS AND EXPLANATIONS						
al (IIS Patent No. 5.841.478), does not teach	Claims 1-25 meet the criteria set out in PCT Article 33(2)-(4), because the prior art, as exemplified by HU et al. (US Patent No. 5,841,478), does not teach or fairly suggest means to identify and substantially continuously update desired trellis state path at each new trellis branch as claimed.					
HU et al. discloses, e.g., 'In steps 460 and 465 of FIG. 15, trace unit 160 identifies the merged state and the trellis decoded bit sequence that most likely corresponds with the transmitted interleaved symbol packet sequence. Trace unit 160 identifies the trellis decoded bit sequence on an Epoch by Epoch basis using the forward trace process shown in FIG. 14. The forward trace technique is a cost-effective method of reducing data decoding delay (latency).'						
Claims 1-25 have industrial applicabilit used in industry.	Claims 1-25 have industrial applicability under PCT article 33 (4) because the subject matter claimed can be made or be used in industry.					
NEW CITATIONS	NEW CITATIONS					
NONE			,			

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International application No.

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VII. Certain defects in the international application
The following defects in the form or contents of the international application have been noted:
Claim 11 line 2 'apparatus' should be 'method' because methods comprising steps are being claimed.
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